

Title (en)  
CLADDED ALUMINIUM-ALLOY MATERIAL AND PRODUCTION METHOD THEREFOR, AND HEAT EXCHANGER USING SAID CLADDED ALUMINIUM-ALLOY MATERIAL AND PRODUCTION METHOD THEREFOR

Title (de)  
PLATTIERTES ALUMINIUMLEGIERUNGSMATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR SOWIE WÄRMETAUSCHER MIT DIESEM PLATTIERTEN ALUMINIUMLEGIERUNGSMATERIAL UND SEIN HERSTELLUNGSVERFAHREN

Title (fr)  
MATÉRIAU EN ALLIAGE D'ALUMINIUM PLAQUÉ ET PROCÉDÉ DE PRODUCTION S'Y RAPPORTANT ET ÉCHANGEUR DE CHALEUR UTILISANT LEDIT MATÉRIAU EN ALLIAGE D'ALUMINIUM PLAQUÉ ET PROCÉDÉ DE PRODUCTION S'Y RAPPORTANT

Publication  
**EP 3093356 B1 20180321 (EN)**

Application  
**EP 14878326 A 20141217**

Priority  
• JP 2014003676 A 20140110  
• JP 2014006307 W 20141217

Abstract (en)  
[origin: EP3093356A1] A highly corrosion resistant and highly formable clad aluminum-alloy material, a method for producing the same, a heat exchanger using the same and a method for producing the same are provided. The present clad aluminum-alloy material has an aluminum alloy core material, an intermediate layer material clad on one surface of the core material and a brazing filler metal clad on the intermediate layer material surface which is not at the core material side, wherein a crystal grain size of the intermediate layer material before brazing heating is 60  $\mu\text{m}$  or more, and in a cross section of the core material in a rolling direction before brazing heating, when R1 ( $\mu\text{m}$ ) represents the crystal grain size in a plate thickness direction, and R2 ( $\mu\text{m}$ ) represents the crystal grain size in the rolling direction, R1/R2 is 0.30 or less.

IPC 8 full level  
**C22C 21/00** (2006.01); **B21B 1/22** (2006.01); **B21B 3/00** (2006.01); **B23K 1/00** (2006.01); **B23K 1/19** (2006.01); **B23K 20/04** (2006.01); **B23K 31/02** (2006.01); **B23K 35/22** (2006.01); **B23K 35/28** (2006.01); **B32B 15/20** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01); **F28F 21/08** (2006.01); **B23K 101/14** (2006.01); **B23K 103/10** (2006.01)

CPC (source: EP US)  
**B21B 1/22** (2013.01 - EP US); **B21B 1/26** (2013.01 - US); **B21B 3/00** (2013.01 - EP US); **B22D 7/005** (2013.01 - EP US); **B23K 1/00** (2013.01 - US); **B23K 1/0012** (2013.01 - EP US); **B23K 1/19** (2013.01 - US); **B23K 20/04** (2013.01 - US); **B23K 31/02** (2013.01 - US); **B23K 35/0238** (2013.01 - EP US); **B23K 35/22** (2013.01 - US); **B23K 35/28** (2013.01 - US); **B23K 35/286** (2013.01 - EP US); **B23K 35/288** (2013.01 - EP US); **B32B 15/016** (2013.01 - EP US); **C22C 21/00** (2013.01 - EP US); **C22C 21/02** (2013.01 - EP US); **C22C 21/08** (2013.01 - EP US); **C22C 21/10** (2013.01 - EP US); **C22C 21/14** (2013.01 - EP US); **C22F 1/04** (2013.01 - EP US); **C22F 1/043** (2013.01 - EP US); **C22F 1/047** (2013.01 - EP US); **C22F 1/053** (2013.01 - EP US); **C22F 1/057** (2013.01 - EP US); **F28F 21/084** (2013.01 - EP US); **F28F 21/089** (2013.01 - EP US); **B23K 2101/14** (2018.07 - EP US); **B23K 2103/10** (2018.07 - EP US)

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